

# Biochemistry Abstracts

Part 2  
Nucleic acids

Annual Indexes to Volume 12 1982

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# Biochemistry Abstracts

## Part 2

## Nucleic acids

Annual Indexes to Volume 12 1982

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# Foreword

**Biochemistry Abstracts: Part 2, Nucleic Acids** (formerly Nucleic Acids Abstracts) commenced publication in 1971 and is published monthly. Each issue contains between 400 and 600 abstracts followed by author and subject indexes.

## Coverage

In compiling each month's issue, CSA's editorial staff monitors approximately 5,000 primary journals and other source references for papers falling within the scope of the journal.

## Subject scope and arrangement of subject matter

The table of contents shows the full scope of the journal. Every paper citing any physical, chemical or biological aspect of nucleic acids, nucleoproteins, nucleotides, nucleosides, and related purines and pyrimidines is reported. Papers relating to nucleotides will be included only where they are of direct relevance to the nucleic acids themselves. Abstracts are allocated to the section (subsection) to which they are most relevant and cross-referred to other sections (subsections) where appropriate.

## Using this journal

Full details of the bibliographic data cited for each abstract and of abbreviations used can be found in the first issue of this volume.

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 DNA, immunoglobulins  $\lambda$ 1-chain constant region genes, defective mutant, mice 5596.  
 DNA, influenza virus, cloning, double-stranded association, hemagglutinins genes 4550.  
 DNA, insertion sequence, *atp* gene, phage  $\lambda$ , phage 343 3874.  
 DNA, insertion sequence 5, *Escherichia coli* 5945.  
 DNA, insertion sequence 5, phage  $\lambda$  4921.  
 DNA, insertion sequence 5, phage Mu 2411.  
 DNA, insertion sequences, transposon Tn4 4433.  
 DNA, insertion specificity, transposon Tn10, bacteria 1876.  
 DNA, interferon genes, chromosome 9, leukocytes, man 3930.  
 DNA, junctions, polyoma virus, transformed cells 4920.  
 DNA, *lamb* gene, phage  $\lambda$  receptors, *Escherichia coli* 1843.  
 DNA, leucine operon, *Escherichia coli* 3447.  
 DNA, localization tRNA Ile, tRNA Ala genes, *Bacillus subtilis* 1874.  
 DNA, location introns, exons, computer programs 868.  
 DNA, *lox* locus, recombination, phage P1 4956.  
 DNA, maltose operon, relationship function 4880.  
 DNA, mammary tumor virus, endonuclease EcoRI, mice 2342.  
 DNA, mammary tumor virus, tumorigenicity, adenocarcinoma, mammary gland, mice 4412.  
 DNA, mapping, heterochromatin, *Secale cereale* 1345.  
 DNA, Marek's disease virus, herpesvirus (turkey), repeated sequence, genomes 4919.  
 DNA, mating genes, *Saccharomyces cerevisiae* 2388.  
 DNA, methodology, tRNA Tyr genes yeasts 3346.  
 DNA, mitochondria, genetics variation, comparison, apes, man 817.  
 DNA, mitochondria genomes, *Aspergillus nidulans* 3946.  
 DNA, mitochondria genomes, cattle, comparison man, evolution 3926.  
 DNA, mitochondria tRNA genes, rats 3918.  
 DNA, mitochondria, tRNA, genes, *Saccharomyces cerevisiae* 1365.  
 DNA, models, hamsters 2390.  
 DNA, Moloney leukemia virus 2345.  
 DNA, Moloney murine sarcoma virus 822.  
 DNA, Moloney sarcoma virus, mouse, homology placenta, man 4953.  
 DNA, monkeys, hybridization SV40 1380.  
 DNA, *mos* gene, Moloney sarcoma virus 3374.  
 DNA, mRNA linkage, *Dicystostelium discoideum* 832.  
 DNA, murine leukemia virus 2351.

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- DNA mutation, N-acetyl-2-acetylaminofluorene induction, mechanisms 4854.  
 DNA, neuraminidase genes, influenza A virus 2327.  
 DNA, nucleosomes, SV40 5966.  
 DNA, organization, genomes, reviews, vertebrates 5991.  
 DNA organization, reassocation kinetics, *Oryza sativa* 2421.  
 DNA, ovalbumin loci Y gene, chickens 3961.  
 DNA, papilloma virus 4329.  
 DNA, papilloma virus (human) 3414.  
 DNA, penicillinase genes, *Bacillus licheniformis* 2413.  
 DNA, penicillinase genes, *Escherichia coli*, comparison *Pseudomonas aeruginosa*, evolution 1357.  
 DNA, penicillinase genes, *Escherichia coli*, comparison *Pseudomonas aeruginosa* 2929.  
 DNA, phage SPPI, *Bacillus subtilis* 3425.  
 DNA, phage  $\Phi$ -14 2403.  
 DNA, phage  $\Phi$ X174, effects on complementary biosynthesis, *Escherichia coli* 4000.  
 DNA, *phoA* gene, *Escherichia coli* 3450.  
 DNA, phosphoglycerate kinase genes promoters, *Saccharomyces cerevisiae* 2923.  
 DNA, plasmid pBR325 2408.  
 DNA, plasmid pC194 3436.  
 DNA, plasmid pE194 3434.  
 DNA, plasmid pSN2 3415.  
 DNA, plasmid pT181 rep<sup>+</sup> gene, *Staphylococcus aureus* 5438.  
 DNA, polyoma virus mice hybrids genomes 4899.  
 DNA, prokaryotes, eukaryotes 788.  
 DNA, promoters, histidine, arginine, transport operons, *Salmonella typhimurium* 5434.  
 DNA, promoters, RNA polymerase, phage T7 2863.  
 DNA proteins coding regions, mathematical models 6032.  
 DNA, pseudogenes, snRNA families, man 5500.  
 DNA, recognition, restriction endonuclease sites, computer programs 1313.  
 DNA, recombination, phage  $\lambda$  4877.  
 DNA, relationship conformation, plasmids 1348.  
 DNA, relationship conformation, poly(dA-dT) 1356.  
 DNA, relationship sister chromatid exchange, chromosomes, V79-E cells 4134.  
 DNA, repeated sequence, avian myeloblastosis virus 3373.  
 DNA, repeated sequence, genomes, mice 4908.  
 DNA, repeated sequence, phylogeny, *Macropodidae* 322.  
 DNA repeated sequence, proviruses, spleen focus-forming virus 3947.  
 DNA repeated sequence, reviews, retrovirus 3372.  
 DNA, repeated sequence, Rous-associated virus 0 3883.  
 DNA replication origin, *Erwinia carotovora* 7033.  
 DNA, replication origin, *Tetrahymena thermophila* genomes, *Saccharomyces cerevisiae* 5394.  
 DNA replication origin, plasmid pT181 5431.  
 DNA, replication regions, chromosomes, *Saccharomyces cerevisiae* 3911.  
 DNA, restriction endonuclease mapping, hybridization analysis, alcohol dehydrogenase genes, genomes, *Saccharomyces cerevisiae* 5448.  
 DNA, restriction endonuclease, sex differences, *Drosophila* 1892.  
 DNA, reviews, *Tetrahymena thermophila* 4444.  
 DNA, ribosomes, *Allium cepa* 296.  
 DNA, ribulosebiphosphate carboxylase genes introns, chloroplasts, *Nicotiana tabacum* 4893.  
 DNA, role kinetics, endonuclease 2547.  
 DNA, role, termination, replication, DNA polymerase I, *Drosophila melanogaster* 5136.  
 DNA, *rpoC* gene, *Escherichia coli* 4423.  
 DNA, rRNA genes, *Aspergillus nidulans* 5387.  
 DNA, rRNA genes, *Tetrahymena pigmentosa* 4881.  
 DNA, rRNA genes transcription initiation sites, HeLa cells 3959.  
 DNA, rRNA 15S genes, mitochondria, yeasts 1872.  
 DNA, rRNA 45S precursors genes introns, rats 4448.  
 DNA, *Saccharomyces cerevisiae* 5385.  
 DNA, specificity, frameshift mutation, *Escherichia coli* 5947.  
 DNA, splice junctions 2410.  
 DNA, structure, *Triticum* 347.  
 DNA, *SUE2* gene, *Saccharomyces cerevisiae* 5453.  
 DNA, SV40, man 4879.  
 DNA, tail fibers genes, phage T4 1844.  
 DNA, termini rearrangement, host range mutants, melanoma cell lines, adenovirus (human) 12 4414.  
 DNA, transcription initiation sites, immunoglobulins  $\kappa$ -chain genes 5398.  
 DNA, transcription initiation sites, phage T4 5962.  
 DNA, transcription termination sites, rRNA genes, *Tetrahymena thermophila* 1884.  
 DNA, transposon *mdg3* repeated sequence, *Drosophila melanogaster* 6013.  
 DNA, transposon Tn21, *Escherichia coli* 1351.  
 DNA, transposons, *Drosophila* 2940.  
 DNA, transposons, *Drosophila melanogaster* 859.  
 DNA, tRNA His genes, mice 4891.  
 DNA, tRNA Leu genes, introns, yeasts 979.  
 DNA, tRNA Leu genes, promoter regions, *Xenopus laevis* 4900.  
 DNA, tRNA Pro tRNA Lys genes clusters, gene libraries, rats 6024.  
 DNA, tRNA Val genes, chloroplasts, *Zea mays* 819.  
 DNA, *trpS* gene, *Escherichia coli* 1498.  
 DNA, *uvrB* gene, promoters, *Escherichia coli* 1341.  
 DNA, woodchuck hepatitis virus 866.  
 DNA, woodchuck hepatitis virus, comparison, hepatitis B virus 2330.  
 DNA, *Zea mays* 298.  
 DNA-binding protein genes, adenovirus (human) 2 4932.  
 DNA-binding protein genes, *Escherichia coli* 2871.  
 cDNA,  $\gamma$ -crystallin, eye lens, *Rana temporaria* 5972.  
 cDNA,  $\alpha$ -globin genes, plasmid pHB 1003, chickens 2360.  
 cDNA,  $\beta$ -globin genes, thalassemia, man 4431.  
 cDNA,  $\delta$ -globin pseudogenes, comparison man, evolution, *Leuroidea* 3928.  
 cDNA,  $\alpha$ -fetalbumin, rats 862.  
 cDNA, 3'-terminus, hemagglutinins, neuraminidase genes, influenza virus 4265.  
 cDNA, acetylcholine receptors genes, *Torpedo californica* 5457.  
 cDNA, actin genes, Glycine max, comparison, *Drosophila*, yeasts 5473.  
 cDNA, adenovirus 2922.  
 cDNA, alcohol dehydrogenase genes, *Zea mays* 5097.  
 cDNA, amino acid sequence, geproenkephalin, pigs 5082.  
 cDNA, analysis heterogeneity, influenza virus 2898.  
 cDNA, antifreeze glycoproteins genes, *Pseudopleuronectes americanus* 4941.  
 cDNA,  $\alpha$ 1-antitrypsin, man, comparison ovalbumin, chickens 4403.  
 cDNA, apolipoprotein II genes, gene libraries, chickens 4948.

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cDNA, avian sarcoma virus 3360  
cDNA, carboxypeptidase A genes, gene libraries, rats 3905  
cDNA, cell surface glycoproteins, comparison C-terminus amino acid sequence.  
Trypanosoma brucei 3421.  
cDNA, cell surface glycoproteins genes, comparison amino acid sequence.  
Trypanosoma brucei 3902.  
cDNA, chorion genes, proteins, Bombyx mori 5487.  
cDNA, clones, whey acidic protein, gene 3535.  
cDNA, cloning,  $\epsilon$ -chain immunoglobulin E, rats 5450.  
cDNA, cloning, genes, cytochrome P-450, liver, rats 4969.  
cDNA, cloning, hybridization analysis, restriction endonuclease mapping, epoxide hydrolase genes, liver, rats 5652.  
cDNA, cloning RNA, influenza A virus 1859.  
cDNA, cloning, snRNA pseudogenes, gene libraries, man 5482.  
cDNA, cloning,  $\alpha$ 1-antitrypsin mRNA induction, activity 3553  
cDNA, complement C3 genes, mice, man 5452.  
cDNA, conalbumin mRNA genes, chickens 5290.  
cDNA, factor B, major histocompatibility complex, man 5960.  
cDNA, gene libraries, whey phosphoproteins genes, mammary gland, rats 5474.  
cDNA, gene S7, phase T4 3456.  
cDNA, genomes, adenovirus 4936.  
cDNA, genomes, murine sarcoma virus 4435.  
cDNA, globin genes deletion mutant, relationship hematological diseases, man 5456.  
cDNA, glycoproteins genes, rabies virus 5441.  
cDNA, glycoproteins, rats 3251.  
cDNA, histone H3 genes, introns, chickens 4903.  
cDNA, histone H4, histone H3 genes, comparison Xenopus laevis, Xenopus borealis 4447.  
cDNA, hybridization analysis, restriction endonuclease mapping, kallikrein genes, gene libraries, mice 5462.  
cDNA, immunoglobulin heavy chains switch regions, Drosophila 3978.  
cDNA, immunoglobulin A light chains  $\kappa$  gene, S107 cells 4416.  
cDNA, immunoglobulin G  $\gamma$ -chain genes, lymphoma, cell lines 5397.  
cDNA, immunoglobulin  $\lambda$  chain genes, mice cell lines 4430.  
cDNA, immunoglobulin  $\gamma$ -chain genes, families, organization, man 4909.  
cDNA, immunoglobulin  $\kappa$ -chain genes, rabbits 4441.  
cDNA, immunoglobulin constant region,  $\lambda$ -chain, gene libraries, mice 5495.  
cDNA, immunoglobulin genes, heavy chain disease, man 3934.  
cDNA, immunoglobulin heavy chains constant region  $\gamma$  gene, gene libraries, man 4457.  
cDNA, keratin, chickens 6028.  
cDNA, leghemoglobin genes families, gene libraries, Glycine max 5488.  
cDNA, membrane proteins genes, influenza A virus 2418.  
cDNA, metallothionein, liver, mice 3957.  
cDNA, B2-microglobulin genes, mice 4910.  
cDNA, mitochondria, man, cattle 5975.  
cDNA, mRNA genomes, influenza B virus 3256.  
cDNA, mRNA poly(A)-containing, hybridization analysis, processing, prolactin, cattle 4805.  
cDNA, myosin, heart, rats 4422.  
cDNA, myosin, skeletal muscle, chickens 6022.  
cDNA, neuraminidase genes, influenza A virus 4761.  
cDNA, neuraminidase neu, RNA, influenza virus 3781.  
cDNA, neuraminidase, influenza A virus 4263.  
cDNA, nucleoproteins genes, influenza A virus 1866.  
cDNA, poliovirus 3395.  
cDNA, pre- $\alpha$ -lactalbumin genes, man, guinea-pigs, comparison chickens  
prelysozyme genes, evolution 3925.  
cDNA, preproenkephalin genes, adrenal medulla, cattle 4894.  
cDNA, preproenkephalin genes, gene libraries, man 4906.  
cDNA, preprogastrin genes, cloning, pigs 5466.  
cDNA, procollagen genes, chickens 3906.  
cDNA, proglucagon genes, pancreas, Lophius piscatorius 5484.  
cDNA, promoters regions, m $\mu$  locus, Escherichia coli 3954.  
cDNA, repeated sequence + gag gene inversion, baboon endogenous virus 4957.  
cDNA, RNA genomes, poliovirus 4271.  
cDNA, RNA 26S, Sindbis virus 3901.  
cDNA, RNA 7S genes, mice 3779.  
cDNA, rRNA genes, Tetrahymena pyriformis 3970.  
cDNA, rRNA 18S genes flanking regions, Xenopus laevis 3353.  
cDNA, satellite DNA repeated sequence, Cercopithecus aethiops 4940.  
cDNA, structure analysis, association carcinoma, woodchuck hepatitis virus 4406.  
cDNA, thyroglobulin genes, cattle 5080.  
cDNA, transformation regions, simian sarcoma virus 3921.  
cDNA, tRNA Met genes, yeasts 3872.  
cDNA, uteroglobin genes, rabbits 5978.  
cDNA, YPI gene, YPI gene, comparison mRNA, Drosophila melanogaster 3867.  
cDNA,  $\gamma$  gene, Escherichia coli 5455.  
double-stranded RNA, C.D. 121  
double-stranded RNA, Saccharomyces cerevisiae 1703.  
early nucleotide sequence, vaccinia virus 810.  
effects on RNA crystals structure 671.  
effects on secondary structure double-stranded DNA, deoxyribonuclease I substrate  
specificity analysis 3411.  
env genes, proviruses DNA, Moloney leukemia virus, cloning, mink cell  
focus-forming virus 4949  
env gene RNA, AKR leukemia virus 3245  
Epstein-Barr virus circular DNA, transformed cells 796.  
Epstein-Barr virus RNA, homology, adenovirus RNA 112  
Escherichia coli, phoA gene, promoters, signals proteins, amino acid sequence  
809.  
Escherichia coli, Strongylocentrotus purpuratus 1349.  
frd operon, amp<sup>r</sup> operon, Escherichia coli 5459  
frdB gene, Escherichia coli 5436.  
gene mapping, erf gene, phase P22 3979.  
gene mapping, nucleotide sequence, plasmids, recombinants, Escherichia coli 1335  
gene 32, phase T4 5992.  
genes,  $\alpha$ -globin variants, hemoglobin M, erythrocytes, chick embryos 3381.

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genes, DNA, plasma proteins, Drosophila 2379.  
gen, DNA-binding protein, phase P1, Pseudomonas aeruginosa, homology, phase  
fd, Escherichia coli 3379.  
genes, mRNA, yolk proteins, ecodyson effects on transcription 2900.  
genomes DNA, papilloma virus (bovine) 1 5952.  
genomes, phase  $\lambda$  2941.  
globin, fetuses, mice, plasmids, Escherichia coli 1981.  
 $\epsilon$ -globin gene, cDNA, ducks 3895.  
 $\beta$ -globin genes, embryos, mice 3410.  
 $\beta$ -globin genes, embryos, rabbits 1834.  
 $\beta$ -globin genes flanking regions, thalassemia effects on, man 3347.  
 $\beta$ -globin genes, man 1888.  
 $\epsilon$ -globin genes, man 1330.  
 $\gamma$ -globin genes, man 2376.  
 $\delta$ -globin genes, thalassemia, normal subjects, man 6025.  
 $\alpha$ -globin subtypes, chickens 2318.  
heavy chains genes, immunoglobulin A, cDNA, cloning, plasmid pBR322, mice 1894.  
heavy chains, immunoglobulins constant region genes, mice 2884.  
hemagglutinins gene products, comparison, influenza A virus, man 4267.  
hemagglutinins genes, antigenic characteristics, influenza virus 4259.  
hemagglutinins genes, influenza A virus 4771.  
herpes simplex virus 1, herpes simplex virus 2, DNA, comparison 802.  
herpes simplex virus 1 mRNA 4279.  
heterochromatin DNA, reviews 4896.  
histone H5 genes, erythrocytes, chickens 3348.  
homology, chloroplasts, nuclei, restriction endonuclease mapping, Euglena 1853.  
homology, DNA, clogon factor Tu genes, Escherichia coli, chloroplasts,  
Chlamydomonas reinhardtii 5435  
homology, DNA, mitochondria, Nicotiana tabacum, Zea mays, Phaeosulfis vulgaris  
3364  
homology, DNA, SV40, polyoma virus, computer programs 4951.  
homology, relationship deletion mutant, Escherichia coli 4532.  
homology, role plasmids DNA transformation Streptococcus pneumoniae 3518.  
homology RNA 5S genes, man, mitochondria, bacteria 3392.  
homology, satellite DNA, cattle 1887.  
B hordein genes, endosperm, hordeum vulgare 1329.  
hybridization, DNA kinetoplasts, taxonomic significance, Leishmania tropica  
major, Leishmania aethiopiaca, Leishmania 325.  
iVG gene, frameshift mutant, Escherichia coli 3358.  
immunoglobulin  $\kappa$ -chain  $\gamma$  gene, man 3407.  
immunoglobulin D heavy chains genes, mice 5409.  
immunoglobulin E genes, chromosome 9, man 5994.  
immunoglobulin E genes, immunoglobulin E, man 5956.  
immunoglobulin  $\lambda$  chains, man 3401.  
immunoglobulin heavy chains variable region genes, mice 3402.  
influenza A virus nucleoproteins genes 653.  
initiation factor 3 genes, Escherichia coli 3397.  
initiation sites, ribosomes binding sites, penicillinase genes, Staphylococcus  
aureus 2874  
insertion sequences, adenovirus (human) 5 3341.  
insulin genes flanking regions, man 2943.  
interferon B1 gene, gene mapping, man 804.  
interferon, leukocytes, man 831.  
late mRNA 5'-terminus, polyoma virus 628.  
leghemoglobin genes, Glycine max 2393.  
leghemoglobin genes, multiple forms, Glycine max 3922.  
lex A gene, transcription, Escherichia coli 1855.  
ligands interaction, kinetics 521.  
lysine tRNA Lys, characterization, anticodons, mitochondria, liver, rats 3167.  
lysozyme genes, mRNA, content, chickens 126.  
maltose operon, mal T gene, Escherichia coli 5944.  
mammary tumor virus DNA clones 3404.  
membrane glycoproteins genes cDNA, rabies virus 4885.  
meningovirus, binding ribosomes, initiation factor 2, L-929 cells 1185.  
methodology, cDNA, phase M13 5440.  
mitochondria DNA, genomes, Aspergillus nidulans 313  
mitochondria DNA, mice 2357.  
mitochondria DNA, mice, man 884.  
mitochondria DNA, phylogeny, Mus musculus 1839.  
mitochondria DNA, rRNA, tRNA genes, Neurospora crassa 2402.  
mitochondria DNA, Zea mays 828.  
mitochondria genomes DNA, Aspergillus nidulans 5969.  
mitochondria rRNA 5S, Tricium aestivum 2753.  
mRNA, cytochrome c, Saccharomyces cerevisiae 1166.  
mutants, tRNA, function, maturation, Escherichia coli 69.  
mutation, B-globin, genes, thalassemia, man 2920.  
Mycoplasma, comparison, Acholeplasma 793.  
myeloma proteins, role, antigens binding specificity 4439.  
neuraminidase genes, 3' terminus, influenza A virus 5847.  
neuraminidase genes, influenza A virus 5849.  
nifD gene, comparison amino acid sequence nitrogenase subunits, Clostridium  
pasteurianum 1347.  
nifH gene, nitrogenase, characterization, Rhizobium meliloti 302  
NS gene, influenza A virus 2203.  
oligodeoxynucleotides, B-form DNA, effects on secondary structure 3149.  
oligodeoxynucleotides, determination 4701  
ompA gene promoters, cyclic AMP-binding protein binding sites, Escherichia coli  
1319  
ompA gene, Shigella dysenteriae, comparison Escherichia coli 2942  
organization, poly(A)-containing mRNA, lampbrush chromosomes, oocytes, Xenopus  
laevis 5285  
ovalbumin genes, families, chickens 5480.  
palindromes, phase  $\Phi$ X174 2346  
penP gene, Bacillus licheniformis 4429.  
phase f1 genes, interchromosomal region 833  
poly(A)-containing mRNA 3' terminus, adenovirus (human) 2 4768  
poA gene, cDNA, Escherichia coli 5460  
polyribosomes, mRNA, homology, developmental stages, Drosophila melanogaster 618  
preproenkephalin genes cDNA, adrenal medulla, cattle 3950  
prolactin DNA, pituitary, cattle 3258  
gene promoters, N-terminus,  $\alpha$ -amylase genes, Bacillus amyloliquefaciens 2414  
promoters, phase SP01, binding RNA polymerase+proteins, gene 28 2321  
promoters region, bacteriocins operons, bacteriocinogenic factors 3345  
promoters, RNA polymerase association, Bacillus subtilis 469

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- promoters, SpOVC gene, interaction,  $\alpha$ -subunit, RNA polymerase, *Bacillus subtilis* 321.  
 protamine genes, *Salmo gairdneri* 4961.  
 protein biosynthesis initiation sites, RNA, poliovirus 3244.  
 proteins genes, cDNA, cloning, adenovirus (human) 7 2328.  
 proteins genes, DNA, cloning, adenovirus (human) 3 2329.  
 proteins mRNA, vesicular stomatitis virus 1692.  
 proviruses genes repeated sequence, spleen necrosis virus 4970.  
 psoralen cross-linking sites, probes secondary structure, *Escherichia coli* 3764.  
 pyril gene, *Escherichia coli* 6143.  
 Qa-2 gene, Qa-3 gene, *Norospira crassa* 5389.  
 rearrangement, cDNA, interferon genes, mechanisms, fibroblasts, man 2904.  
 recognition, endonuclease EcoRI, DNA 2011.  
 recognition regulation proteins, models 1041.  
 recombinants plasmids cDNA, protamine genes, testis, *Salmo gairdneri* 1342.  
 relationship, *Aeromonas hydrophila*, *Aeromonas caviae*, *Aeromonas sobria* 311.  
 repeated, evolutionary genetics, comparison, *Pisum sativum*, *Vigna radiata* 309.  
 repeated sequence, differentiation, roots, *Allium cepa* 297.  
 repeated sequence, DNA, *Drosophila melanogaster* 4913.  
 repeated sequence DNA, Epstein-Barr virus 4926.  
 repeated sequence, DNA, homology, man, monkeys 320.  
 repeated sequence DNA, relationship Alu family, satellite DNA, man 3430.  
 repeated sequence, DNA, spacers,  $\delta$  globin,  $\beta$  globin, man 323.  
 repeated sequence, RNA, quantitation, separation, evolution genes 118.  
 restriction endonuclease, electrophoresis, mitochondria DNA, population studies 292.  
 restriction endonuclease mapping, hybridization analysis, cDNA, gene libraries, histocompatibility gene HLA, man 5402.  
 restriction endonuclease mapping, point mutation, DNA polymorphism, maternal inheritance, mitochondria, cattle 5445.  
 restriction endonuclease recognition, computer programs predictions, *Haemophilus influenzae* 1510.  
 ribosomal protein S1 genes, *Escherichia coli* 3342.  
 ribosomes DNA, *Tetrahymena thermophila* 2352.  
 ribulosebisphosphate carboxylase subunits genes, chloroplasts, *Spinacea oleracea* 850.  
 RNA 116.  
 RNA, 5'-terminus, 3'-terminus, potato virus X 5854.  
 RNA, 3'-terminus, influenza virus 4264.  
 RNA, 3'-terminus, Pichinde virus 1174.  
 RNA, 3'-terminus, Pichinde virus 4250.  
 RNA, 3'-terminus, strains, southern bean mosaic virus 4249.  
 RNA, adeno-associated virus 2 2181.  
 RNA, attenuation, poliovirus 5856.  
 RNA, avocado sunblotch viroid 622.  
 RNA, bromo mosaic virus 2188.  
 RNA, C-type virus, mice 2192.  
 RNA, cDNA hybridization analysis, brain, rats 5853.  
 RNA, CHO cells 648.  
 RNA, citrus exocortis viroid 4748.  
 RNA, comparison, isolates, influenza A virus 5842.  
 RNA, comparison nuclei cytoplasm, evolutionary genetics, Friend cells 646.  
 RNA, comparison peptide mapping, membrane proteins influenza virus 3767.  
 RNA, correlation, proteins, influenza B virus 1149.  
 RNA, developmental stages, poly (A), DNA cloning, *Xenopus laevis* 123.  
 RNA, *Drosophila melanogaster* 661.  
 RNA, Epstein-Barr virus, adenovirus, comparison 2747.  
 RNA, evolutionary genetics methodology, tRNA Phe, rRNA 5S 1153.  
 RNA, galactose operon, *Escherichia coli* 2206.  
 RNA, gene products, membrane proteins, amino acid sequence, comparison influenza A virus, influenza B virus 4246.  
 RNA, genomes, alphavirus 5858.  
 RNA genomes, cadang-cadang disease viroid 5848.  
 RNA genomes, defective-interfering particles, Semliki Forest virus 3773.  
 RNA genomes, Moloney leukemia virus 3260.  
 RNA, genomes, Semliki Forest virus 4274.  
 RNA homology, analysis, comparison phages genomes 1156.  
 RNA, homology, computer programs 1144.  
 RNA, influenza A virus 1151.  
 RNA, influenza A virus 3232.  
 RNA, influenza B virus, comparison influenza A virus 3243.  
 RNA, interference particles, Sindbis virus 1159.  
 RNA, Lirus isolates, influenza A virus 3238.  
 RNA, mammary tumor virus 639.  
 RNA, microheterogeneity, placenta, man 657.  
 RNA, neuraminidase genes, influenza A virus 4760.  
 RNA, periodicity, tobacco mosaic virus 2190.  
 RNA, phase T4 1701.  
 RNA, poliovirus 1 2865.  
 RNA polymerase (RNA-dependent) genes, influenza A virus 3230.  
 RNA polymerase (RNA-dependent) genes, influenza virus 4757.  
 RNA polymerase subunits genes, transcription termination sites, *Escherichia coli* 837.  
 RNA, reverse transcription, simian sarcoma virus 2766.  
 RNA, role, leukemia, C-type virus 1690.  
 RNA, Rous sarcoma virus 2195.  
 RNA 7S, cardiac muscle, chick embryos 1170.  
 RNA 5S genes, Schizosaccharomyces pombe 2860.  
 RNA 26S, Semliki Forest virus, comparison amino acid sequence methodology 2748.  
 RNA, secondary structure, hepatoma 124.  
 RNA, snowshoe hare virus 4751.  
 RNA, southern bean mosaic virus, cowpea mosaic virus 1176.  
 RNA termini, Germiston virus 5846.  
 RNA termini, polyadenylation, West Nile virus 2763.  
 RNA termini, reovirus 5843.  
 RNA termini, reovirus 5845.  
 RNA, tobacco mosaic virus 5855.  
 RNA transcripts, 3'-terminus, 5'-terminus, influenza virus 4247.  
 RNA, transcripts, cauliflower mosaic virus 3765.  
 RNA transcripts, comparison mRNA, influenza virus 2189.  
 RNA, Zea mays 660.  
 mRNA,  $\beta$ -globin, coding, regions, monkeys 128.  
 mRNA, 3'-terminus, herpes simplex virus 1 2746.  
 mRNA, adenovirus (human) 2 1160.  
 mRNA, ceruloplasmin, hnRNA, liver, rats 2170.

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- mRNA, genes, antigen (tumor-specific), adenovirus (human) 3889.  
 mRNA, matrix proteins, glycoproteins, vesicular stomatitis virus 2185.  
 mRNA, mouse hepatitis virus 2202.  
 mRNA, MT-1 gene, gene regulation, mice 122.  
 mRNA, promoters, collagen genes, chickens 641.  
 mRNA, relationship initiation, rIIb gene, phage T4 3208.  
 mRNA ribosomes binding sites, reovirus 3237.  
 mRNA, Rous sarcoma virus 2193.  
 mRNA, SV40 640.  
 mRNA, thyrotropin subunits genes cloning, mice 818.  
 rRNA 3'-terminus, comparison *Tritum* cytosol, mitochondria, *Escherichia coli* 4252.  
 rRNA, comparison eukaryotes, prokaryotes 1705.  
 rRNA gene, introns, *Physarum polycephalum*, homology, *Escherichia coli* 134.  
 rRNA gene, *Paramecium primaurelia* 337.  
 rRNA genes, 5'-terminus, spacer regions, rats 5984.  
 rRNA genes, chloroplasts, *Nicotiana tabacum* 331.  
 rRNA genes, Dictyostelium discoideum 2526.  
 rRNA genes introns, comparison *Tetrahymena thermophila*, *Tetrahymena pigmentosa* 3417.  
 rRNA genes spacer regions, chloroplasts, *Nicotiana tabacum* 2906.  
 rRNA, genes, *Tetrahymena pyriformis* 1358.  
 rRNA, genes, *Tetrahymena pyriformis* 1359.  
 rRNA genes transcription initiation sites, man, comparison mice, rats 3935.  
 rRNA genes, transcription initiation sites, mitochondria, *Saccharomyces cerevisiae* 3971.  
 rRNA, histone genes, *Drosophila melanogaster* 4947.  
 rRNA precursors, *Tetrahymena thermophila* 3257.  
 rRNA, restriction endonuclease sites, data banks, evolutionary genetics, Kineoplastidae 1155.  
 rRNA, silk gland, Bombyx mori 1177.  
 rRNA 15S genes, mitochondria, ochre mutant suppressors 5383.  
 rRNA 16S 3'-terminus, *Synechococcus*, comparison chloroplasts, *Zea mays* 3766.  
 rRNA 16S fragments, *Escherichia coli* 2768.  
 rRNA 16S, *Prochloron* 3778.  
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